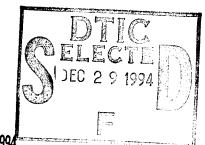


DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AIR FORCE CIVIL ENGINEER SUPPORT AGENCY



1 4 DEC 1994

FROM: HQ AFCESA/EN

139 Barnes Drive

Tyndall AFB FL 32403-5319

SUBJECT: Engineering Technical Letter (ETL) 94-7: EPA Guideline Items in

Construction and Other Civil Engineering Specifications

1. Purpose. This ETL ensures Air Force civil engineer specifications comply with public law, Executive Order, and Air Force policy.

2. Application: All Air Force civil engineer specifications.

2.1. Authority: The Resource Conservation and Recovery Act, section 6002 (42 U.S.C. 6962); Executive Order 12873, Federal Acquisition, Recycling, and Waste Prevention; AFI 32-7080, Pollution Prevention Program; and the 7 January 1993 SECAF/CSAF Pollution Prevention Action Plan.

2.2. Effective Date: Immediately. Expires five years from date of issue.

3. References.

- **3.1.** Executive Order 12873, Federal Acquisition, Recycling, and Waste Prevention, October 20, 1993.
- **3.2.** Environmental Protection Agency (EPA) Manual 530-SW-91-011, *Procurement Guidelines for Government Agencies*, December 1990.
- **3.3.** EPA Environmental Fact Sheet 530 SW-91-044, *EPA Guideline for Purchasing Building Insulation Containing Recovered Materials*, June 1991.
- **3.4.** EPA Environmental Fact Sheet 530-SW-91-086, *EPA Guideline for Purchasing Cement and Concrete Containing Fly Ash*, January 1992.
- **3.5.** EPA Environmental Fact Sheet 530-SW-91-046, *EPA Guideline for Purchasing Paper and Paper Products*, June 1991.
- **3.6.** EPA Environmental Fact Sheet 530-SW-91-043, EPA Guideline for Purchasing Re-Refined Lubricating Oil, June 1991.

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- 3.7. EPA Environmental Fact Sheet 530-SW-91-045, EPA Guideline for Purchasing Retread Tires, June 1991.
- 4. Specific Requirements. Requirements of this ETL are mandatory unless otherwise stated.
- 4.1. EPA Guideline Items.
- **4.1.1.** EPA guideline items currently include:
 - · concrete and cement containing fly ash
 - recycled paper products
 - re-refined lubricating oil
 - · retread tires
 - building insulation containing recovered materials.
- 4.1.2. Include EPA guideline items, which contain recycled and/or recovered material, in Air Force civil engineer specifications unless the product:
 - does not meet appropriate performance standards;
 - is not available competitively within a reasonable time frame; or
 - is only available at an unreasonable price.

Include future guideline items in civil engineer specifications as they are designated by the EPA.

- 4.2. Other Products Containing Recycled/Recovered Material. Project designers should look for opportunities to maximize the use of products containing recycled/recovered material in every new project.
- 5. Point of Contact: Capt. Dave Maharrey, HQ USAF/CEVV, DSN 227-2797, commercial (703) 697-2797.

Rita A. Gregory, Ph.D., PE

Director of Systems Engineering

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- 1. Distribution List
- 2. ETL Index

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IHS (A.A. DeSimone) 1990 M Street NW, Suite 400 Washington DC 20036	(1)	Construction Criteria Database National Institute of Bldg Sciences 1201 L Street NW, Suite 400 Washington DC 20005	(1)

SECTION A - CURRENT ETLs

ETL Number	Title	Date Issued
83-1	Design of Control Systems for HVAC Change No. 1 to ETL 83-1, U.S. Air Force Standardized Heating, Ventilating & Air	16 Feb 83
	Conditioning (HVAC) Control Systems	22 Jul 87
83-3	Interior Wiring Systems, AFM 88-15, Para 7-3	2 Mar 83
83-4	EMCS Data Transmission Media (DTM)	
	Considerations	3 Apr 83
83-7	Plumbing, AFM 88-8, Chapter 4	30 Aug 83
83-8	Use of Air-to-Air Unitary Heat Pumps	15 Sep 83
.83-9	Insulation	14 Nov 83
84-7	MCP Energy Conservation Investment Program	
	(ECIP)	13 Jun 84
84-10	Air Force Building Construction and the Use of	
	Termiticides	1 Aug 84
86-2	Energy Management and Control Systems (EMCS)	5 Feb 86
86-4	Paints and Protective Coatings	12 May 86
86-5	Fuels Use Criteria for Air Force Construction	22 May 86
86-8	Aqueous Film Forming Foam Waste Discharge	
	Retention and Disposal	4 Jun 86
86-9	Lodging Facility Design Guide	4 Jun 86
86-10	Antiterrorism Planning and Design Guidance	13 Jun 86
86-14	Solar Applications	15 Oct 86
86-16	Direct Digital Control Heating, Ventilation,	
	and Air Conditioning Systems	9 Dec 86
87-1	Lead Ban Requirements of Drinking Water	15 Jan 87
87-2	Volatile Organic Compounds	4 Mar 87
87-9	Prewiring	21 Oct 87
88-2	Photovoltaic Applications	21 Jan 88
88-3	Design Standards for Critical Facilities	.15 Jun 88
88-4	Reliability & Maintainability (R&M) Design Checklist	24 Jun 88
88-6	Heat Distribution Systems Outside of Buildings	1 Aug 88
88-9	Radon Reduction in New Facility Construction	7 Oct 88
88-10	Prewired Workstations Guide Specification	29 Dec 88
89-2	Standard Guidelines for Submission of Facility	
	Operating and Maintenance Manuals	23 May 89
89-4	Systems Furniture Guide Specification	6 Jul 89
89-6	Power Conditioning and Continuation Interfacing	
	Equipment (PCCIE) in the Military Construction	
	Program (MCP)	7 Sep 89

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SECTION A - CURRENT ETLs

ETL	Number	Title	Date Issued
	89-7	Design of Air Force Courtrooms	29 Sep 89
	90-1	Built-Up Roof (BUR) Repair/Replacement Guide Specification	23 Jan 90
	90-2	General Policy for Prewired Workstations and Systems Furniture	26 Jan 90
	90-3	TEMPEST Protection for Facilities Change 1 Ref: HQ USAF/LEEDE Ltr dated 20 April 90,	
	90-5	Same Subject Fuel and Lube Oil Bulk Storage Capacity	23 Mar 90
	30-5	for Emergency Generators	26 Jul 90
	90-6	Electrical System Grounding, Static Grounding	
		and Lightning Protection	3 Oct 90
	90-7	Air Force Interior Design Policy	12 Oct 90
	90-8	Guide Specifications for Ethylene Propylene	
		Diene Monomer (EPDM) Roofing	17 Oct 90
	90-9	Fire Protection Engineering Criteria for Aircraft	
		Maintenance, Servicing, and Storage Facilities	2 Nov 90
	90-10	Commissioning of Heating, Ventilating, and	
		Air Conditioning (HVAC) Systems Guide	
		Specification	17 Oct 90
	91-1	Fire Protection Engineering Criteria	
		Testing Halon Fire Suppression Systems	2 Jan 91
	91-2	High Altitude Electromagnetic Pulse (HEMP)	4.14 04
	04.4	Hardening in Facilities	4 Mar 91
	91-4	Site Selection Criteria for Fire Protection	14 1 01
	01 5	Training Areas	14 Jun 91
	91-5	Fire Protection Engineering Criteria -	18 Jun 91
	91-6	Emergency Lighting and Marking of Exits Cathodic Protection	· 3 Jul 91
	91-7	Chlorofluorocarbon (CFC) Limitation in \Heating,	· 3 3ul 31
	31-7	Ventilating and Air-Conditioning (HVAC) Systems	21 Aug 91
	93-1	Construction Signs	11 Mar 93
	93-2	Dormitory Criteria for Humid Areas	13 Jul 93
	93-3	Inventory, Screening, Prioritization, and Evaluation	10 00, 00
	000	of Existing Buildings for Seismic Risk	18 Aug 93
	93-4	Fire Protection Engineering Criteria -	. 0 , .ag 00
		Automatic Sprinkler Systems in Military	
		Family Housing (MFH)	11 Aug 93

SECTION A - CURRENT ETLs

ETL Number	Title	Date Issued
93-5	Fire Protection Engineering Criteria -	
	Electronic Equipment Installations	22 Dec 93
94-1	Standard Airfield Pavement Marking Schemes	5 Apr 94
94-2	Utility Meters in New and Renovated Facilities	10 Jun 94
94-3	Air Force Carpet Standard	10 Jun 94
94-4	Energy Usage Criteria for Facilities in the Military	
	Construction Program	19 Aug 94
94-5	Fire Protection Engineering Criteria and Technical	•
	Guidance - Emergency Lighting and Marking of Exits	8 Nov 94
94-6	Fire Protection Engineering Criteria and Technical	
	Guidance - Removal of Halogenated Agent Fire	į
	Suppression Systems	5 Dec 94
94-7	EPA Guideline Items in Construction and Other	
	Civil Engineering Specifications	14 Dec 94
	- · · · · · · · · · · · · · · · · · · ·	

SECTION B - OBSOLETE ETLs

ETL Number	Date	Status
82-1 82-2 82-3 82-4 82-5 82-6	10 Nov 82 10 Nov 82 10 Nov 82 10 Nov 82 10 Nov 82 30 Dec 82	Superseded by ETLs 83-10, 86-1, 87-4 Superseded by AFEPPM 88-10 Superseded by ETLs 83-5, 84-2 Superseded by ETL 84-7 Superseded by ETLs 84-1, 86-13, 86-14 Cancelled
82-7 83-2 83-5 83-6 83-10 84-1	30 Nov 82 16 Feb 83 5 May 83 24 May 83 28 Nov 83 18 Jan 84	Cancelled Superseded by ETL 84-3 Superseded by ETL 84-2 Cancelled Superseded by ETL 86-1 Superseded by ETL 86-14
84-2 84-3 84-4 84-5 84-6 84-8	27 Mar 84 21 Mar 84 10 Apr 84 7 May 84 Not Issued 19 Jun 84	Superseded by ETL 94-4 Cancelled Superseded by ETLs 86-7, 86-15, 87-5 Superseded by ETLs 84-8, 86-11, 86-18, 88-6 Cancelled/Not Used Superseded by ETL 86-11
84-9 88-5 86-1 86-3 86-6 86-7	5 Jul 84 2 Aug 88 3 Feb 86 21 Feb 86 3 Jun 86 3 Jun 86	Superseded by ETL 88-7 Superseded by ETL 91-6 Superseded by ETL 87-7 Superseded by ETL 86-4 Superseded by ETLs 86-11, 86-18, 88-6 Superseded by ETL 86-15
86-11 86-12 86-13 86-15 86-17 86-18	3 Jul 86 3 Jul 86 18 Aug 86 13 Nov 86 17 Dec 86 18 Dec 86	Superseded by ETL 88-6 Superseded by ETL 90-2 Superseded by ETL 86-14 Superseded by ETL 87-5 Superseded by ETL 89-6 Superseded by ETL 88-6
87-3 87-4 87-5 87-6 87-7 87-8 88-1	12 Mar 87 13 Mar 87 13 July 87 21 Aug 87 14 Oct 87 19 Oct 87 5 Jan 88	Superseded by ETL 88-6 Superseded by ETLs 87-6, ETL 88-5 Superseded by ETL 94-4 Superseded by ETL 94-2 Superseded by ETL-88-5 Superseded by ETL 89-1 Superseded by ETL 90-1 Superseded by ETL 89-2
88-5 88-7 88-8 89-1 89-3 89-5	2 Aug 88 24 Aug 88 4 Oct 88 6 Feb 89 9 Jun 89	Superseded by ETL 91-6 Superseded by ETLs 90-3, 91-2 Superseded by ETL 91-7 Superseded by ETL 90-4 Superseded by ETL 93-5 Issued as ETL 90-7
90-4 91-8 91-3	24 May 90 24 Sep 91 14 Jun 91	Cancelled Cancelled Superseded by MIL HDBK 1008B, Jan 94

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CONSTRUCTION TECHNICAL LETTERS (CTL)

SECTION C - CURRENT CTLs

CTL Number	Title	Date Issued
88-2	DD Form 1354 Checklist	6 Jan 88
88-7	Constructibility Review Checklist	1 Nov 88
89-1	Thirty-Percent Design Submittal	10 Apr 89
89-2	MAJCOM Construction Management	30 May 89
89-3	Warranty and Guarantee Program	22 Sep 89
90-1	Management of the MILCON Planning	
	and Execution Process	6 Mar 90
90-2	Definitions for Design Milestones	13 Mar 90

SECTION D - OBSOLETE CTLs

CTL Number	Status
87-1	Superseded by CTL 88-3
88-1	Superseded by CTL 90-1
88-3	Superseded by ETL
88-4	Replaced by Electronic Data File and Documentation in PDC/WIMS
88-5	Superseded by CTL 90-2
88-6	Issuance Cancelled